CLAIMS

We claim:

1. A composition comprising a substrate comprising an array of capture probes, at least one of which comprises a recombinase.

2. A composition according to claim 1 wherein a plurality of said probes are coated with a recombinase.

3. A composition according to claim 1 or 2 wherein said recombinase is a RecA recombinase.

4. A composition according to claim 3 wherein said RecA recombinase is E. coli RecA.

5. A composition according to claim 3 wherein said RecA recombinase is RecA peptide.

6. A composition according to claim 1 wherein said recombinase is a Rad51 recombinase.

7. A composition according to claim 1 wherein said capture probes are covalently attached to said substrate.

8. A composition according to claim 1 wherein said capture probes comprise DNA.

9. A method of detecting the presence of a target sequence in a sample comprising:
a) providing a substrate comprising an array of capture probes;
b) contacting said target sequence with said array, wherein either said capture probes or said target sequence is coated with a recombinase, to form an assay complex; and
c) detecting the presence of said assay complex as an indication of the presence of said target sequence.

10. A method according to claim 9 wherein said recombinase is a recA recombinase.

11. A method according to claim 10 wherein said recA recombinase is E. coli recA.

12. A method according to claim 9 wherein said capture probes comprise said recombinase.

13. A method according to claim 9 wherein said target sequence comprises said recombinase.

14. A method according to claim 13 further comprising coating said target sequence with said recombinase.

15. A method according to claim 9 wherein said target sequence is RNA.

16. A method according to claim 15 wherein said RNA is coated with a recombinase.